# **MANILA DOCTOR TO PREVENT CARRYING** OF CHOLERA BY MAN

Experiment on Guinea Pigs Leads to Important Discovery of Intermittant Immunization from Disease.

MANILA-What is considered by insular health officials as a most important discovery, has been disclosed by Dr. School of the government bureau of science, who has been experimenting with guinea pigs. His experiments have shown that guinea pigs are intermittent cholera carriers in that they can be inoculated with the cholera germ and later will throw off the germ. Then, without further inoculation, a feeding of bile brings back the cholera germ.

These experiments, say local health officials, explain remarkable conditions which have been found to prevail at Bilibid prison, the big insular prison in Manila. During the slight epidemic of cholera which has been affecting several provinces of the islands, inspections at Bilibid have discovered cholera carriers among the prisoners who, on previous examination, were found to be negative. Chol-

Cholera carriers are a big problem league, and perhaps in both major discovery, local health officials hope, to be able to salve the problem to be able to solve the problem.



LAVAN IS LEAGUE'S

Johnny Lavan.

Johnny Lavan, the St. Louis era infection appeared afterwards when there had been no possibility of their exposure to the disease.

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# George Graham Rice

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## PHOENIX FOOTBALL **EXHIBITING "PEP"** OF REAL CHAMPIONS

Geary Fast Whipping Into Shape Clockwork Machine. Play First Game Next Sunday Against Alumni.

Phoenix High's gridiron squad, forty of them, are undergoing gruelling practice under Francis E. Geary, head coach, for their first game next Saturday with the school's alumni. The Phoenix coach says his boys dont know they are football players. However he has had good results in whipping them into shape in previous seasons, so his boast that they'll beat anything west of the Mississippi or in it is pardonable in his case.

The school lost seven letter men this year through graduation and other preventable accidents, but in spite of this Geary has managed to find several likely men to fill in.

An Indian which Geary has scared up from somewhere, with an unpardonable name, is pronounced one of Geary's best bets.

The redskin has had several years football experience back of him, and being of a race which does not put such a terrible lot of meaning into the word study, should not let his books interfere with his football.

Geary's trouble in past years has been in whipping his ends and quarters into a semblance of a pigskin chaser. His ends particularly have never been able to solve the problem relating to the chasing of a punt down the field. They have steadfastly refused to hit the breeze, when the ball to lope down the field, wondering who was going to catch the pigskin.

The first game of the season will be played a week from Saturday with the form than ever before. high school has-beens or in other in the valley. They have answered the call of the mole and pigskin, and if the old age law don't go into effect before the opening date, should put up a creditable game against the

# LOSS OF RUSSELL

CHICAGO, Sept. 30,-The loss of 'Pete" Russell left a hole in the University of Chicago team that Coach Stagg believes will be most difficult ence. to fill. Graduation of the brilliant cog in the elaborate forward pass at- fast,

tack evolved by Stagg. a larger number of available forwards | mances to date. The backfield will be the same as that of last year, except for the losses noted, and will be remembered that two complete sets of versatile ground gain ers were at the command of the Maroon mentor last fall.

# PLANS ANOTHER TRIP



Captain Bartlett on a winter hike. Capt. Robert A. Bartlett, who has been in Arctic exploration for eighteen years of his life, who has been farther north than any other white man with the exception of Peary, who has suffered hardships in the frozen regions, is afflicted with Arctic nostalgia. He now plans another trip to the unexplored country of the far north, and hopes to start in May,

## COLORADO U. BIDS FAIR TO DOWN ALL **RIVALS AT FOOTBALL**

Wealth of New Material Includes Fastest High School Boys in State - "Charley Horse" Appears.

BOULDER, Colo., Sept. 30 .- With the third week of school in progress and the University of Colorado football squad recruited to war strength, preliminaries have been dropped by M. C. Evans, the new coach and each afternoon sees 30 huskies going through a real sweat-producing work-

That peculiar affliction of the muscles known as "Charley Horse", which is the real harbinger of the football season, is making its appearance and halty, limping, walks are quite the style among the elite of the squad.

The squad shows a decrease in numbers over last year. At this time of the season in past years more than 50 men have been in suits.

Of the letter men of last fall, six are now numbered among the squad. They are halfback, Kemp; linesmen, Adams, Randall, Grieg and Heuman, and end, Wilbur Adams. The Adams brothers were the only ones to play regularly.

As in past years the line presents the greatest problem to the coach. Backs and ends of some experience are coming to light each day, but the supply of forwards has proven rather meagre.

An examination of the personnel of the squad shows a wealth of untried material. Among those trying out for the backfield are Rapp, Nims and Leslie Eastman of last year's freshmen. soared into the air, rather preferring All showed good as yearlings. Kemp In several of the contests last fall, being kept out of the rest of the time by a bad knee. He is showing better

Costello played on the freshmen words the alumni as the opponents. team two years ago, remaining out of In the past P. U. H. S. has turned out the game last fall. He is a product some regular players, quite a number of the Denver High School. He is a of whom are still kicking up the dust dash man on the track and typifies all that Evans' ideas of a good football

player imply. Duplicating Costello's natural qualifications is Ted Chisholm. As a member of Sacred Heart College, Denver, eleven before coming here he was a consistent performer. While he has had no experience on a team of conference rank, he possesses that clean build and great speed after which coaches seek.

Wiley Lawrence comes to the squad with a good high school record, but no college service. Eckel is a brother of Clarence Eckel, for three years preceding 1915 center on Folsom's eleven. He has had only high school experi-

Wilbur Adams, last year an end, is captain left the eleven without a lead- trying out for the backfield, but may er, without a punter of more than or- be shifted back to his position. He is dinary ability and without the main heavier than his competitors and is

On the secondary defense men, Offsetting the loss of Russell and Kemp, Rapp and Lawrence are show-Fullback Flood, however, is the news ing good form in punting. Evans that the line will be heavier than that | states that while he does not expect which sometimes failed to hold its a second Pete Nelson, he is assured own last year and that there will be of a consistent kicker by the perfor-

In the line Victor Adams, Grieg, Randall, Neuman and Tub Eastman comprise the remnants of last year's squad men. Ball and Scheidegger comes from the freshmen. Patton, Sandhouse and Platts are others who are working out regularly. Eastman and Randall are at present being used at center. The others are being TO EXPLORE ARCTIC shifted from squad to tackle by Evans in order that he may get a line on their ability

Reed, Eddy, Edwards and Sylvester are being worked at ends. Reed was an all-state man among the high school teams three years ago. He handles forwards passes well and is fast. Edwards and Sylvester come up with the 1915 freshmen. Eddy was a member of the squad last year.

# BADGER SQUAD **NOT LIKE CHAMPS**

MADISON, Wis., Sept. 30.-Little chance for a conference football championship is seen at Wisconsin this fall. The squad, which includes a number of men of brief experience in actual battle, though they have been on the gridiren for some time, lacks, it is said, that quality known to foot ball fans as "class."

Paul Withington, successor to Bill

Some of the stars of last year will have cut rates. answer the first call. They are Capt. Meyers, right end; E. Simpson, quarand Horge Gunderson, center.

Dispatch from Consul General An-movement of trains, thus contributing republic. derson, at Hong Kong, says there has to same end. been a sharp decline in trans-Pacific | Project to create an island in New freight rates within the last few days. York harbor by filling in greater part | When you feel discouraged and de-

BISBEE

# Copper Mining and Development Company

BISBEE, ARIZONA, THE WORLD'S DIVIDEND RECORD COPPER DISTRICT

Of all the world's great copper camps, Bisbee holds the record for paying the most dividends per pound of copper produced and the most dividends per ton of ore mined and smelted. Its mines have yielded more copper per ton or ore than any other great copper camp in the world. Bisbee, Arizona, compares with the Michigan and Butte, Montana, districts as follows;

Dividends Paid 
 Per pound of copper produced
 .05%

 Per ton of ore mined
 .186.25

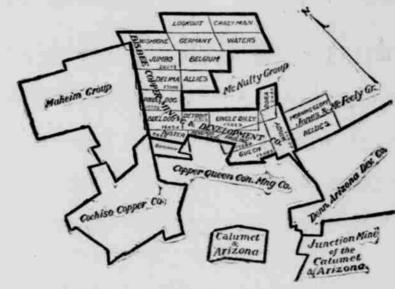
 Copper recovered per ton of ore
 .120 lbs.
 .035<sub>8</sub> -\$1.00 .031/a --\$2.50

Bisbee has produced 2,161,200,000 pounds of copper—more than one million tons of the metal—since July, 1880. Its four leading companies have paid each dividends of \$110,343,254 to September 30, 1916, or a return of 935 per cent on the entire present combined capital invested. In addition to the cash dividends paid to date, the present market value of the holdings and equipment (bought and paid for out of the profits) exceeds 1,400 per cent on the par value of the total capital now invested.

The Copper Queen, the leading mine of the Bisbee District, has paid over 3.800 per cent in dividends on its capitalization of \$2,000,000. Its cash dividends to date are \$77,257,500. Around it has grown up the Phelps, Dodge Co., one of the six copper companies in the world enjoying a market value of over \$100,000,000 for their securities. The Copper Queen comprises the bulk of the tangible assets of Phelps-Dodge. It has been for over thirty years one of the four "show" mines o fthe copper world-Rio Tinto, Calumet & Hecla, and Anaconda

Other well-known Bisbee companies are the Calumet & Arizona, and the Superior & Pittsburg (merged in 1915), and the Shattuck-Arizona. In the last named, the late James J. Hill and his associates have extensive soldings. In the first two, the control is held by a syndicate including the Corey-Tener-Congdon-Cole-Hoatson-Briggs groups of U. S. Steel and Amalgamated Copper circles. These younger companies have paid \$33,085,-854 net cash dividends in a few years.

#### BISBEE COPPER MINING AND DEVELOPMENT COMPANY



Paralleling for over 4000 feet the famous Copper Queen Mine.

#### GENERAL DESCRIPTION

The Bisbee Copper Mining & Development Company is incorporated in Arizona. Capitalization, 1,000,000 shares, par \$1, full paid and non-assessable; issued 400,000 shares; in treasury 600,000.

The company owns outright the fee to twelve patented claims, and an undivided, unmortgaged interest, free of all encumbrances in seven additional claims, a total of 2731/2 acres.

The holdings immediately adjoin on the north the Copper Queen mines of Phelps-Dodge & Company. There is a common boundry 4,000 feet long between the Copper Queen on the south, and the Bisbee Copper Mining & Development Company's holdings on the north. The Sacramento Shaft, the main hoisting shaft of the Copper Queen Company, is located about 3,500 feet from the Bisbee Copper Mining & Development Company's property. The Junction shaft, which is the largest hoisting and working shaft of the Calumet & Arizona Mining Company, is about the same distance away. zona Mining Company, is about the same distance away.

#### SURFACE SHOWINGS

There are several outcrops on the property, where the surface shows the ore, especially on the Windy and Gulch claims. Assays from these claims, show values of 1.29 to 2.90 per cent copper, which is a phenomenal showing for surface croppings in the Bisbee Mining District. In various places on the Pauline, Windy, Gulch and Dora claims, the surface rock is heavily copper-stained, showing copper in the cuprite crystal form. These claims show chalcopyrite in various places.

ms snow charcopyrite in various places.
Surface showings, and development work already finished show the Bisbee Copper Mining & Development Company's property to have far above the average showing for mining ground in this district.

### DEVELOPMENT TO DATE

Development to date has been by means of churn-drilling. This method of development has been found alnable by the Phelps-Dodge people in developing their Copper Queen ore bodies. First hole struck soft formation at 160 feet. This formation was dolomite lime, and dry bone, and exinvaluable by the Phelps-1. tended for 25 feet down to the 185-foot point. Assays show from 1 to 21/2 per cent copper. This hole was lost

Second hole, about 60 feet east of first is also on Pauline Claim. This hole was sunk to the 267-foot point. at 185 feet. Between 185-foot and 225-foot levels, 40 feet of the above soft formation was encountered, showing the same This formation is similar to that found in all the other big copper mines of the Warren District and

Practically assures the presence of a rich ore body. The full financing of the Company has been arranged. As soon as the necessary machinery has been received from Chicago, a triple-compartment shaft will be sunk in the Pauline Claim, to the 1,000-foot level, if necessary. The management of the Bisbee Copper Mining & Development Company is confident, however, that ore will be pened up before that level is reached. With good luck, the ore should be opened up between the 200 and 500-foot levels. The shaft will be sunk at the rate of 150 feet of more per month

LIMITED TREASURY STOCK OFFERING

We offer the following block of stock subject to prior sale and with the right to close subscription books without notice:

### 100,000 SHARES AT 75c PER SHARE NET

We believe the possibilities of the Bisbee Copper Mining & Development Company's grounds are exceeded by no Copper proposition now before the public. There has never been serious development work undertaken in the Bisbee District, by mining companies, that did not open a bananza. A valuation of \$750,000 for the entire capitalization compares with 2 to 20 times this sum for a dozen copper enterprises now traded in, not one of which enjoys better location, better possibilities, nor better showing

to date, than does the Bisbee Copper Mining & Development Company.

APPLICATION TO LIST THIS STOCK ON THE NEW YORK CURB IS PENDING. COPIES OF "BISBEE - PAST, PRESENT, AND FUTURE," FULLY DESCRIBING THE WONDERFUL HISTORY OF THIS RICH COPPER CAMP, AS WELL AS THE BISBEE COPPER MINING AND DEVELOP. MENT COMPANY WILL BE FORWARDED, FREE UPON REQUEST. ASK FOR BOOKLET H. A. 102.

# HOWARDARILEY& G.

STOCK BROKERS Suite 917, 20 BROAD ST., NEW YORK

208 Griscom Building, Reading, Pa.

Land Title Building, Philadelphia All Statements regarding the Bisbee Copper Mining & Development Company are substantiated by affidavit of A. H. Livingston, Secretary of the Company.

Juneau as head coach, will find the obtained prior to the war. General chorage" between St. George, S. I., dose of Chamberlain's Tablets and you squad sadly in need of elementary business slackness in the Far East, and Gowanus Bay, has met with many are almost certain to feel all right drill, it is predicted, but with that drill due to some extent to high value of protests. Purpose was to erect ware- within a day or two, properly instilled under the new coach- silver exchange, which prevents sale houses and piers. Petitioners for proing system he expects to adopt, the of Chinese products in movement of ject, it is said, represent more than Badgers should make a fair showing produce. Subsidized Japanese lines \$40,000,000 of capital, which it is es-

Judge Chambers, of the board of ter; Glenn Taylor, quarter; Howard mediation and conciliation, will dis-Hancock, left guard; Robert Filtzer, cuss with President Wilson next week

Rates are now comparable with those of Red Hook choals, or "eastern An- spondent do not give up but take a (Advertisement)

timated would be total cost of island wharves and warehouses.

Special mine taxes decreed through right tackle; Milton Gardner, guard, the eight-hour day for railroad work out Mexico by governors and military and Louis Kreuz, fullback, all "W" ers. Administration is said to realize commanders have been revoked by that the roads map attempt to defeat General Carranza. This is considered punting and Taylor the drop kicking, the measure through manipulation of especially favorable to mining inter-Other veterans expected are Max trains and their loads so as to make eats, which are largely American. De-Berg, fullback; Otto Rohsenberger, operation costs appear to be oppresseries has created favorable sentiment left tackle: Herbert Crawer, left end, sive and even confiscatory. Also towards the de facto government and feared that the men, through desire mining men are already talking about for overtime, may obstruct and delay reopening plants in northern part of

Despondency.

NOTICE TO THE PUBLIC.

We desire to caution the public against the misrepresentations being made by the so-called cooks and waiters union in regard to the number of hours our employees work.

The facts are that the cooks and waiters and all other help employed by us in our restaurant for the past three months work only eight hours for a day's work and we challenge evidence to contradict these facts. Following is the scale of wages we pay:

Cooks, \$4.00 per day, 8 hours. Waiters, \$3.00 per day, 8 hours. Dishwashers, \$2.25 per day, 8 hours. Time and one-half for overtime. The above wages include board

THE ENGLISH KITCHEN. William Truax, Prop.